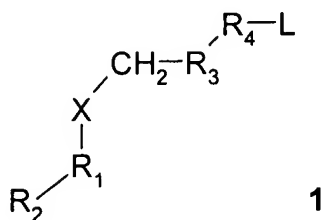


## ABSTRACT

The invention relates to compounds of formula 1



wherein R<sub>1</sub>-R<sub>2</sub> is a guanine derivative; X is oxygen or sulfur; R<sub>3</sub> is a heteroaromatic, unsaturated heterocyclyl or an alkynyl group with the double or triple bond connected to CH<sub>2</sub>; R<sub>4</sub> is a linker; and L is a label, a plurality of same or different labels, a bond connecting R<sub>4</sub> to R<sub>1</sub> forming a cyclic substrate, or a further group -R<sub>3</sub>-CH<sub>2</sub>-X-R<sub>1</sub>-R<sub>2</sub>. The invention relates also to methods of manufacture of such novel AGT substrates, to intermediates useful in the synthesis of such AGT substrates, and to a method of transferring a label from such AGT substrates to O<sup>6</sup>-alkylguanine-DNA alkyltransferase (AGT) fusion proteins comprising proteins of interest.